

s/n: 10/669,676  
date: 4-1-05

13 fiber same lens same ferrule same angle\$3 same air (fiber or waveguide) same lens same ferrule same angle\$3 same (gap or space or void or separation or 83 open)	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:02
(fiber or waveguide) same lens same ferrule same angle\$3 same (air with (gap or space or void or 13 separation or open))	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:17
2 3 not 1	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:05
72 2 not 1	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:06
70 5 not 4	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:06
17 6 and air	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:13
5465 ((359/641) or (385/31-34,60,74,76-78,80)).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	4/1/05 10:13
5697 ((359/641,637) or (385/31-34,60,74,76-78,80)).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	4/1/05 10:14
43 2 and 9	US-PGPUB; USPAT; USOCR; IBM_TDB	4/1/05 10:17
((angl\$5 or angular or slant\$3) with fiber) same lens	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:17
307 same ferrule (fiber or waveguide) same lens same (ferrule with (angl\$5 or angular or slant\$3)) same (gap or space or 49 void or separation or open)	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:24
((fiber or waveguide) same lens) and ((ferrule with (angl\$5 or angular or slant\$3)) same (gap or space or 89 void or separation or open))	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:18
3 12 not 2	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:19
43 13 not 2	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:24
(ferrule with (angl\$5 or angular or slant\$3)) same 8 (convex with lens)	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:25
374946 20040513.pd. or ("2005").py.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	4/1/05 10:52
0 ("20040513.pd.or(2005).py.").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	4/1/05 10:53
177 17 and fiber and ferrule and lens	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	4/1/05 10:56

18 9 and 19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	4/1/05 10:54
17 and fiber and ferrule and ((convex or 16 plano\$2convex) with lens)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	4/1/05 10:57
((angl\$5 or angular or slant\$3) with fiber) same lens	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:17
290 same ferrule	US-PGPUB; USPAT; USOCR; IBM_TDB	4/1/05 10:16
5355 ((359/641,637) or (385/31-34,60,74,76-78,80)).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	4/1/05 10:14
5154 ((359/641) or (385/31-34,60,74,76-78,80)).CCLS.	US-PGPUB; USPAT; IBM_TDB	4/1/05 10:00
2261 fiber with collimator	US-PGPUB; USPAT; IBM_TDB	11/30/04 10:50
71 martinez-joseph\$9.xa.	US-PGPUB; USPAT; IBM_TDB	11/30/04 10:50
0 S53 and electro\$phoretic	USPAT	11/12/04 15:47
0 6625352.URPN.	US-PGPUB; USPAT; IBM_TDB	11/12/04 15:42
((angl\$5 or angular or slant\$3) with fiber) same lens	US-PGPUB; USPAT; IBM_TDB	11/12/04 15:41
15 same ferrule) same convex	USPAT	11/12/04 15:36
(optical with coupler) same ((angl\$5 or angular or 143 slant\$3) with fiber) same lens	US-PGPUB; USPAT; IBM_TDB	11/12/04 15:33
3 5926592.URPN.	US-PGPUB; USPAT; USOCR; IBM_TDB	11/12/04 15:32
((optical with coupler) same ((angl\$5 or angular or slant\$3) with fiber) same lens) and (((359/641,637) or 43 (385/31-34,60,74,76-78,80)).CCLS.)	US-PGPUB; USPAT; IBM_TDB	5/13/04 14:24
4822 ((359/641) or (385/31-34,60,74,76-78,80)).CCLS.	US-PGPUB; USPAT; IBM_TDB	5/13/04 14:24
((fiber same ferrule same lens same angle) and (((359/641) or (385/31-34,60,74,76-78,80)).CCLS.))	US-PGPUB; USPAT; USOCR; IBM_TDB	5/13/04 14:23
50 and (back with reflection)	USPAT	5/13/04 13:52
1960 50 and (AR with coating)	USPAT	5/13/04 13:51
((fiber same ferrule same lens same angle) and (((359/641) or (385/31-34,60,74,76-78,80)).CCLS.))	USPAT	5/13/04 13:22
8 and (back with reflection)) and (AR with coating)	USPAT	5/13/04 13:21
1 ("6587618").PN.		
(fiber same ferrule same lens same angle) and		
142 (((359/641) or (385/31-34,60,74,76-78,80)).CCLS.)		
1 5949939.URPN.		
("4790618"   "5333224"   "5452389"   "5537503"   "5666450"   "5764826"   "5841924"   "5841932"		
10 "5949939"   "6053641").PN.		
5 6179483.URPN.		
("4898441"   "4966431"   "5031983"   "5212743"   "5317655"   "5848203"   "5926593"   "5930414"		
12 "6040944"   "6195497"   "6198858"   "6212305").PN.		
9 6040944.URPN.		

5 5195150.URPN. ("3968564"   "4292512"   "4466696"   "4897711"   "4934784"   "4945400"   "5181224"   "5195150"   "5247597"   "5259054"   "5337398"   "5345529"   "5346583"   "5434939"   "5471552"   "5501893"	USPAT	5/13/04 13:16
18 "5742720"   "6023546").PN. ("4074933"   "4509827"   "4545643"   "4637683"   "4746195"   "4835078"   "5009482"   "5281301"	USPAT	5/13/04 13:15
10 "5346583"   "6328482"   "2001/0021287").PN. (fiber same ferrule same lens same angle) same (angle\$2 with polish\$2 with fiber)) and	USPAT	5/13/04 13:13
4 plano\$2convex	US-PGPUB; USPAT; IBM_TDB	5/13/04 13:12
9 5815614.URPN.	USPAT	5/13/04 13:09
4 ("6404951"   "6442310"   "6483961"   "6487334").PN.	USPAT	5/13/04 13:01
4 ("6404951"   "6442310"   "6483961"   "6487334").PN.	USPAT	5/13/04 11:37
3 6483961.URPN. ("3492484"   "3649105"   "4179183"   "4421381"   "4574191"   "4598585"   "4654663"   "4696062"   "4696545"   "4834484"   "4834485"   "4838637"   "4859012"   "4875756"   "4886331"   "4922756"   "4923269"   "4993796"   "5016072"   "5077622"   "5083857"   "5097354"   "5172262"   "5203208"   "5226321"   "5440654"   "5450245"   "5488862"   "5524153"   "5536988"   "5627669"   "5629790"   "5647033"   "5673139"   "5822125"   "5920417"   "6000280"   "6002818"   "6046859"   "6097858"   "6097859"   "6097860"   "6101299"   "6208469"	USPAT USPAT	5/13/04 11:36
45 "6222679").PN.	USPAT	5/13/04 11:28
42 5440654.URPN.	USPAT	5/13/04 11:27
3 6424756.URPN.	USPAT	5/13/04 11:26
8 ("4365863"   "4512036"   "4580873"   "4859012"   "5165104"   "5291324"   "5440654"   "6097859").PN.	USPAT	5/13/04 11:26
42 5440654.URPN. ("4365863"   "4580873"   "4856863"   "4859012"   "4886335"   "5037173"   "5359683"   "5440654"   "5488862"   "5524153"   "5629790"   "5648618"   "5699463"   "5727098"   "5774604"   "5864643"   "5903687"   "5960132"   "6002818"   "6005993"   "6097858"   "6097859"   "6188814"   "6253001"   "6295154"   "6327398"   "6549692"   "6560384"	USPAT USPAT	5/13/04 11:23
30 "6567574"   "6587614").PN. (fiber same ferrule same lens same angle) same	USPAT US-PGPUB; USPAT;	5/13/04 11:21
36 (angle\$2 with polish\$2 with fiber)) and epoxy	IBM_TDB	5/13/04 11:16
4138 plano\$2convex	US-PGPUB; USPAT; IBM_TDB	5/13/04 11:16
9 5815614.URPN.	USPAT	5/13/04 11:13
824 angle\$2 with polish\$2 with fiber	US-PGPUB; USPAT; IBM_TDB	5/13/04 11:12

(fiber same ferrule same lens same angle) same	US-PGPUB; USPAT;	
75 (angle\$2 with polish\$2 with fiber)	IBM_TDB	5/13/04 11:12
	US-PGPUB; USPAT;	
57 fiber with ferrule with lens with angle	IBM_TDB	5/13/04 11:11
9 6040944.URPN.	USPAT	5/13/04 11:11
	US-PGPUB; USPAT; USOCR;	
1876 ((359/641,637) or (385/33)).CCLS.	IBM_TDB	5/13/04 10:59
	US-PGPUB; USPAT;	
307 fiber same ferrule same lens same angle	IBM_TDB	5/13/04 10:59
	US-PGPUB; USPAT;	
7 CALVET-ROBERT-J\$9.in.	IBM_TDB	5/13/04 10:58
	US-PGPUB; USPAT;	
31631 359/641, "637"	IBM_TDB	5/13/04 10:58
	US-PGPUB; USPAT;	
2731 385/33	IBM_TDB	5/13/04 10:58
	US-PGPUB; USPAT;	
3 WALKER-CHRISTOPHER-I\$9.in.	IBM_TDB	5/13/04 10:56
	US-PGPUB; USPAT;	
0 SCHMIDTLIN-EDOUARD\$9.in.	IBM_TDB	5/13/04 10:56
	US-PGPUB; USPAT;	
5 VANZANDT-THOMAS-r\$9.in.	IBM_TDB	5/13/04 10:55
	US-PGPUB; USPAT;	
13 GUTIERREZ-ROMAN-C\$9.in. and fiber	IBM_TDB	5/13/04 10:54
(fiber with collimator) same angle\$3 same ferrule	US-PGPUB; USPAT;	
19 same couple\$5	IBM_TDB	5/13/04 10:52
	US-PGPUB; USPAT;	
32 GUTIERREZ-ROMAN-C\$9.in.	IBM_TDB	5/13/04 10:52